

**WHAT IS CLAIMED IS:**

1. A defective pixel compensation system according to a projection display device having three display panels, said system comprises:

means for specifying a display panel having a defective pixel out of the three display panels;

means for specifying coordinates of the defective pixel; and

means for increasing the brightness of at least one of pixels having the same coordinates as the defective pixel in the display panels other than said display panel having the defective pixel.

2. A defective pixel compensation system according to a projection display device having three display panels, said system comprises:

means for specifying a display panel having a defective pixel out of the three display panels;

means for determining coordinates of the defective pixel;

means for increasing the brightness at least one of pixels having coordinates adjacent to the coordinates of the defective pixel; and

means for increasing the brightness of pixels having the same coordinates as the defective pixel in the display panels other than said display panel having the defective pixel.

3. A defective pixel compensation system according to claim 2, wherein the display panel with pixels having coordinates adjacent to the coordinates of the defective pixel which have brightness increased is at least one or a plural number of the three display panels.

4. A defective pixel compensation system for use in a display device having one display panel, wherein said system comprises:

means for specifying coordinates of a defective pixel; and

means for increasing the brightness of pixels having coordinates adjacent to the coordinates of the defective pixel.

5. A defective pixel compensation system according to any one of claim 1, wherein each of the three display panels is a display panel of an active matrix type.

6. A defective pixel compensation system according to any one of claim 2, wherein each of the three display panels is a display panel of an active matrix type.

7. A defective pixel compensation system according to any one of claim 4, wherein the display panel is a display panel of an active matrix type.

8. A defective pixel compensation system according to any one of claims 1 , wherein each of the three display panels is a liquid crystal panel.

9. A defective pixel compensation system according to any one of claims 2 , wherein each of the three display panels is a liquid crystal panel.

10. A defective pixel compensation system according to any one of claims 4 , wherein display panel is a liquid crystal panel.

11. A projection display device which comprises:  
a light source;  
an optical system for separating light emitted from said light source into three fluxes of light;  
three display panels including one display panel having at least one defective pixel;  
an optical system for combining images of said three display panels to project the images onto a screen; and  
a defective pixel compensation system for increasing the brightness of pixels having the same coordinates as the at least one defective pixel in the display panels other than the display panel in which the defective pixel exists.

12. A display device according to claim 7, wherein each of said three display panels is an active matrix liquid crystal panel.

13. A projector having at least one circuit to correct data comprising:  
a light source;  
an optical system for separating light emitted from said light source into three;  
three display panels including a display panel having at least one defective pixel; and  
an optical system for combining images of said three display panels,  
wherein said at least one circuit has a function of correcting data to increase the brightness of a pixel having the same coordinates as said at least one defective pixel in the display panel except said display panel having at least one defective pixel.

14. An operating method of a projector having three display panels comprising steps of:

specifying a display panel having a defective pixel out of said three display panel;

specifying coordinates of said defective pixel; and

forming data for increasing the brightness of at least one of pixels having the same coordinates as said defective pixel in the display panels except said display panel having said defective pixel.